

**COLLOIDAL DISPERSION OF CALCIUM PHOSPHATE PLATELETS,  
AND ITS PROCESS OF PREPARATION**

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ABSTRACT

The invention provides colloidal dispersions of calcium phosphate platelets comprising at least one polymer which complexes the calcium and in which the length of the platelets,  $L$ , is between 5 and 500 nm and in which the thickness of the platelets is between 0.5 and 20 nm.

Another subject-matter of the invention is the calcium phosphate platelets obtained by drying the colloidal dispersion according to the invention.

The invention also provides a process for preparing these colloidal dispersions of calcium phosphate platelets according to the invention.

Finally, another subject-matter of the invention is the use of the abovementioned colloidal dispersions of platelets as food additive, reinforcing filler, thermal insulation filler, pharmaceutical excipient, polishing agent, building materials, additive for oral formulations, in particular dentifrices, or encapsulating agent.